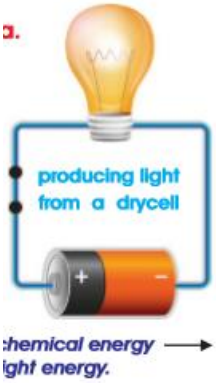
FIRST TERM
WEEKLY LESSON NOTES
WEEK 7

Week Ending: 24-02-2023	**DAY:**	**Subject:** Science
Duration: 100mins		**Strand:** Forces & Energy
Class: B8	**Class Size:**	**Sub Strand:** Energy Conversion
Content Standard: B8.4.1.1 Demonstrate the skill to evaluate the conversion of energy from one form to another	**Indicator:** B8.4.1.1.1 Describe energy conversion	**Lesson:** 1 of 2
Performance Indicator: Learners can describe energy conversion	**Core Competencies:** DL 5.3: CI 6.8: DL 5.1: CI 6.6:	
References: Science Curriculum Pg. 69		

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share learning indicators and introduce the lesson.	
PHASE 2: **NEW LEARNING**	Have learners to understand that energy is needed to be able to do all the various kinds of work Every type of energy has a particular form of work that it can be used to do. There is the need to sometimes change one form of energy into another form that can be used to perform particular work. Brainstorm learners for the meaning of energy conversion. *The process during which one form of energy changes into another form of energy is known as energy conversion.* Revise with learners on the law of conservation of energy. *The law of conservation of energy states that energy can neither be created nor be destroyed but it can only be changed.* Have learners discuss the importance of energy conversion. *It enables a more available but a less useful energy form to be changed into a less available but a more useful energy form.* Guide learners to describe how energy is converted from one form to another.  electrical energy → sound energy  chemical energy → light energy.	Pictures and Charts

	<u>Assessment</u> • What is energy conversion? • State and explain the law of conservation of energy. • Describe three ways how energy is converted from one form to another	
PHASE 3: **REFLECTION**	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	

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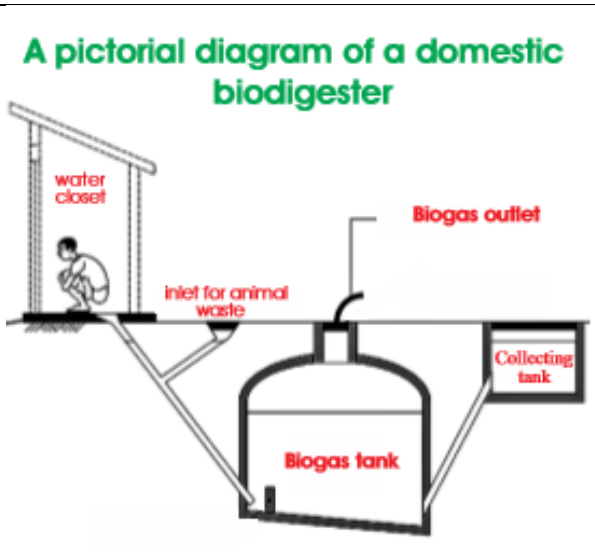
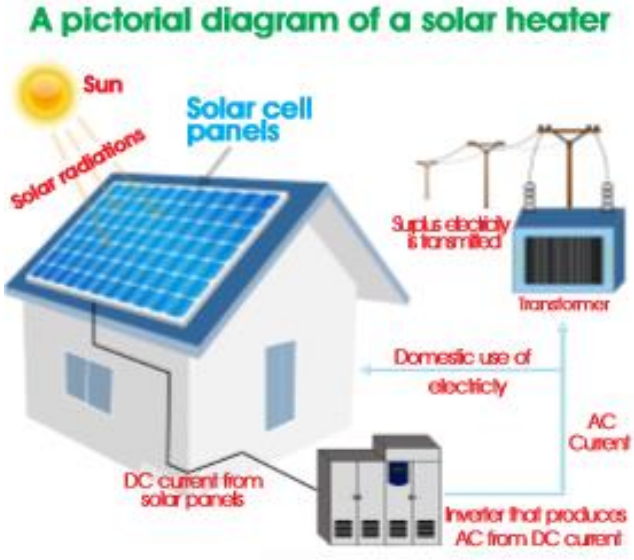
Content Standard: B8.4.1.1 Demonstrate the skill to evaluate the conversion of energy from one form to another	**Indicator:** B8.4.1.1.2 Discuss the importance of conversion of energy.	**Lesson:** 2 of 2
Performance Indicator: Learners can discuss the importance of conversion of energy	**Core Competencies:** DL 5.3: CI 6.8: DL 5.1: CI 6.6:	
References: Science Curriculum Pg. 69		

Phase/Duration	Learners Activities	Resources
PHASE 1: **STARTER**	Revise with learners on the previous lesson. Share learning indicators and introduce the lesson.	
PHASE 2: **NEW LEARNING**	Have learners understand that the more available but less useful energy forms are usually obtained from renewable sources while the less available but more useful energy forms are also obtained from non-renewable sources. Guide learners to explain renewable and non-renewable sources of energy. a. <u>Renewable Sources Of Energy</u> *Renewable sources of energy refers to all those energy sources that are inexhaustible in supply or cannot get depleted with time as a result of continuous use.* *Examples of the renewable sources of energy includes; solar energy from the sun, tidal energy from the sea, wind energy from moving air, hydro energy from moving water, etc.* b. <u>Non - Renewable Sources Of Energy</u> *Non - renewable sources of energy refers to all those energy sources that are exhaustible in supply or can get finished with time as a result of continuous use.* *Examples of non - renewable sources of energy includes; chemical energy from firewood [charcoal], nuclear energy from radioactive substances, chemical energy from natural gas or crude oil like petrol, biogas from decaying organic waste, etc.* Guide learners to explain the processes that a plant and animal waste goes through to produce biogas. <u>The biogas digester</u> *The biogas digester is a device/machine that turns biofuel; i.e. plant and animal waste into biogas.*	Pictures and Charts

	 Guide learners to explain the processes that a solar heater goes through to produce electricity. The solar heater The solar heater is a device that converts solar energy which is obtained from the sun into other energy forms like electricity or heat for various domestic purposes.  Guide learners to describe how to harness natural forms of energy into other forms. Assessment Explain the processes that a dammed river goes through to produce electricity.	
PHASE 3: **REFLECTION**	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	